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FBIP: Mobilizing Biodiversity to meet Demand

A Bio Layer for the Federal Geospatial Platform


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Canada's Data Deficit: Fragmented, Inaccessible, Incomplete



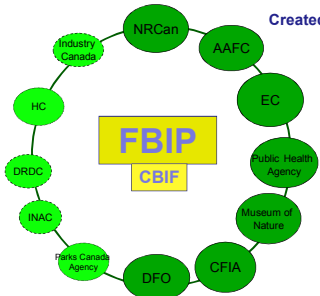
- Gaps in key areas of Canada, for many species/ecosystems
- More records are accessible from institutions outside Canada about Canada than from Canada
- Cost of data access remains higher than acquisition of new data
- Data can be of suspect quality; taxonomic capacity eroded, reference collections in poor state



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What is FBIP?



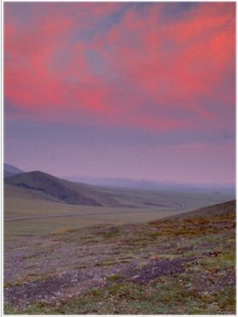
Created to address the federal role:

1. **Provides federal leadership** on integration and cooperation;
2. **Creates access** to federal biodiversity data;
3. **Builds capacity** to support decision-making;
4. **Enhances responsiveness** to domestic priorities;
5. **Lowers Costs** by reducing duplication.



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In Demand: Oil and Gas, Mining

Information Impact:

- Reduced development uncertainty
- Biodiversity data critical to:
 - streamlining and improving impact of EIAs
 - developing effective planning frameworks
- Links between areas of high biodiversity and public resistance
- Avoid and manage conflicts
- Avoid disputes about whose data
- Increase likelihood of approval and acceptance

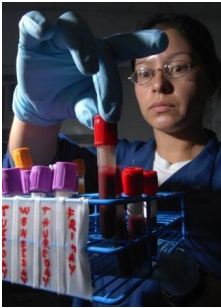
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In Demand: Public Health

Impact: Protecting Canadians from Pandemic Disease and Health threats

- Streamline identification of disease organisms and vectors for transmission
- Rapidly institute mitigative measures
- Speed deployment and development of vaccines and other security measures
- Tracking Climate Change to model effective Health Policy



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In Demand: International Trade

Impact:
Avoiding the trade impacts of invasive & alien species

- Streamline identification of pest organisms, wildlife diseases that can result in trade sanctions
- Rapidly institute adaptive measures
- Speed deployment and development of security measures



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In Demand: Forestry, Agriculture & Fisheries



Information Impact:

- Enhanced market access
- Facilitate performance reporting and certification (e.g. ISO14000, Forest Stewardship Council)
- Aids in identification and detection of pests
- Facilitate compliance with domestic and international policy
- NatureServe Network data contributed to the Canadian Boreal Forest Agreement



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FCGEO-FBIP: provision of the bio layer

The Federal Committee on Geomatics & Earth Observation (FCGEO):

- Established in January 2012, currently involving 20 federal departments
- Created to address challenges of:
 - Lack of an inventory of federal geospatial data assets, and no overarching geo-data strategy;
 - Uncoordinated investments in geospatial information, services, technology, and expertise by departments and agencies;
 - Limited sharing & integration of cross-disciplinary "trusted" data across the federal family - technology, semantics, standards, and licensing provide critical levers;
 - Tight fiscal context, aging infrastructure and demographic, and the opportunities for innovation and efficiency

FBIP + FCGEO = integration of interoperable geospatial data (FCGEO) and interoperable biodiversity data (FBIP)



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To meet these challenges, FCGEO was established under NRCan & AAFC leadership...


- to provide proactive, whole-of-government leadership in geomatics and Earth observations to better support government priorities
- to collectively enhance the responsiveness, efficiency and sustainability of the federal geomatics and Earth observations infrastructure
- to improve access, sharing and integration of geospatial data at all levels (F/P/T and international)

The Federal Committee on Geomatics and Earth Observation (FCGEO)	
AAFC	Infrastructure
AAND	NRCan
CFIA	Parks
Coast Guard	Public Safety
CSA	Public Health
DFO	RCMP
DND	SSC
Elections	StatCan
Environment	TBS
Health	Transport
Industry	

Priority Actions for 2012:

- ❖ Strategic Approach to International Engagement
- ❖ Business Case for a Federal Geospatial Platform (FGP)

...and launched the FGP initiative to capitalize on the value of geospatial data, tools and their potential for information integration and analysis



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